

CURRICULUM AND INSTRUCTION (EDCI)

300 Level Courses

EDCI 370: *Young Adult Literature in Multicultural Settings*. 3 credits.

Examines literary works written for and about young adults, introduces critical issues surrounding teaching of young adult literature in multiculturally diverse schools, and requires reading and review of young adult literature. Notes: Significant online work is required. Offered by Graduate School of Education. May not be repeated for credit.

Schedule Type: Lecture

EDCI 372: *Teaching Mathematics in the Secondary School*. 3 credits.

Covers curricula, current issues, and research literature in secondary school mathematics. Emphasis is on developing different styles of teaching. Field experience is required for those seeking initial teacher licensure. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Corequisite: EDUC 422

Registration Restrictions:

Enrollment limited to students with the Undergrad Teacher Licensure attribute.

Schedule Type: Lecture

400 Level Courses

EDCI 469: *Teaching English in Secondary School*. 3 credits.

Provides study of advanced methods, materials, content, and organization of English programs in secondary school. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDUC 422. Concurrent enrollment is also permitted.

Registration Restrictions:

Enrollment limited to students with the Undergrad Teacher Licensure attribute.

Schedule Type: Lecture

EDCI 472: *Advanced Methods for Teaching Mathematics in the Secondary School*. 3 credits.

Focuses on learning processes for mathematics. Introduces national and state standards regarding content and methodologies for teaching mathematics. Examines instructional methods and materials in relation to secondary mathematical content, curriculum, and assessment. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 372, EDUC 422.

Registration Restrictions:

Enrollment limited to students with the Undergrad Teacher Licensure attribute.

Schedule Type: Lecture

EDCI 473: *Teaching Science in the Secondary School*. 3 credits.

Builds fundamental knowledge of science teaching and learning including standards-based curriculum design and research-based teaching strategies. Notes: School-based field experience required for

those seeking initial teacher licensure. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Secondary Education Program.

Registration Restrictions:

Enrollment limited to students with the Undergrad Teacher Licensure attribute.

Schedule Type: Lecture

EDCI 479: *Advanced Methods of Teaching English in the Secondary School*. 3 credits.

Guides students in working effectively with national and local standards for teaching secondary English. Continuation course in methods from EDCI 469. Offered by Graduate School of Education. May not be repeated for credit. Equivalent to EDCI 669.

Recommended Prerequisite: EDCI 469.

Registration Restrictions:

Enrollment limited to students with the Undergrad Teacher Licensure attribute.

Schedule Type: Lecture

EDCI 483: *Advanced Methods of Teaching Science in Secondary School*. 3 credits.

Provides advanced study of teaching and curriculum development based on research and current issues. Emphasizes integrating science and technology, adapting instruction to needs of diverse learners, and promoting safety. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 473.

Registration Restrictions:

Enrollment limited to students with the Undergrad Teacher Licensure attribute.

Schedule Type: Lecture

EDCI 490: *Student Teaching in Education*. 6 credits.

Provides intensive, supervised clinical experience in approved school for fall or spring semester. Offered by Graduate School of Education. May not be repeated for credit.

Mason Core: Synthesis

Recommended Prerequisite: Completion of licensure and all endorsement course work.

Registration Restrictions:

Enrollment limited to students with the Undergrad Teacher Licensure attribute.

Schedule Type: Internship

EDCI 491: *Internship Seminar in Secondary Training*. 2 credits.

Focuses on critical reflection regarding effects of teacher actions others; develops skills as reflective practitioner; presents research-based

rationales for instructional decision-making. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the professional semester.

Recommended Corequisite: EDCI 490.

Schedule Type: Seminar

500 Level Courses

EDCI 510: *Linguistics for PreK-12 ESOL Teachers*. 3 credits.

Examines language as a system, with particular focus on teaching culturally and linguistically diverse students in grades PreK-12. Considers teaching implications of phonology, morphology, syntax, semantics, and pragmatics. Requires 20 hours of PK-12 classroom fieldwork. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDUC 537 and EDRD 515.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in English as a Second Language or Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 516: *Bilingualism and Language Acquisition Research*. 3 credits.

Examines research in first and second language acquisition, including interaction of bilingual person's two languages with application for the classroom. Requires 20 hours of PK-12 classroom fieldwork. Notes: School-based field experience required. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDUC 537 and EDRD 515. May be taken concurrently with EDRD 515.

Recommended Corequisite: EDCI 560.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 519: *Methods of Teaching Culturally & Linguistically Diverse Learners*. 3 credits.

Examines approaches, methods, and techniques for teaching culturally & linguistically diverse learners in bilingual & ESL classrooms, as well as resources available in the field. Critically analyzes and demonstrates teaching approaches based on second language acquisition research, including teaching language through content. Requires 20 hours of PK-12 classroom fieldwork in public schools. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 516. EDRD 515 and EDUC 537.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 520: *Assessment of Language Learners*. 3 credits.

Examines innovative approaches to assessing language learners. Topics include identification, placement, monitoring of student progress, development of authentic performance-based measures, design of portfolios, application of measurement concepts, analysis of assessment instruments, and linking assessments to instruction. Requires 20 hours of PK-12 classroom fieldwork. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 519 or EDCI 560.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 521: *Curriculum Development for Language Learners*. 3 credits.

Examines current approaches to curriculum development for second language learners and language minority students. Participants review, evaluate, and develop curricular materials, with emphasis on learner-centered activities, cooperative learning, interdisciplinary and thematic approaches, authentic and problem-based learning, integration of language and content, and linking assessment and instruction. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 516, EDCI 519.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 544: *Curriculum and Methods of Teaching in Elementary Education*. 3 credits.

Introduction to general methods of teaching in elementary schools focusing on planning, teaching strategies, management, assessment, and differentiation. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Elementary Education graduate program; must be taken in programmatic sequence.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture**EDCI 545: *Assessment and Differentiation*. 3 credits.**

Provides a research-based introduction to differentiated instruction for children in grades PK-6. Emphasis on the assessment of learners and differentiation of instruction to meet the needs of all learners. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission into the Elementary Education graduate program, must be taken in programmatic sequence.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture**EDCI 546: *Integrating Technology in Elementary Classrooms: Literacy*. 1 credit.**

Studies the development and integration of technology in the elementary education literacy curriculum. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission into Elementary Education graduate

Recommended Corequisite: program. EDCI 556.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture**EDCI 547: *Integrating Technology in Elementary Classrooms: Mathematics*. 1 credit.**

Studies the development and integration of technology in the elementary education mathematics curriculum. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission into Elementary Education graduate

Recommended Corequisite: program. EDCI 552.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture**EDCI 548: *Integrating Technology in Elementary Classrooms: Social Studies and Fine Arts*. 1 credit.**

Studies the development and integration in the elementary education social studies and fine arts curriculum. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission into Elementary Education graduate

Recommended Corequisite: program. EDCI 554.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture**EDCI 552: *Mathematics Methods for the Elementary Classroom*. 1-3 credits.**

Introduces methods for teaching all children topics in arithmetic, geometry, algebra, probability, and statistics in elementary grades. Focuses on using manipulatives and technologies to explore mathematics and solve problems. Notes: Requires field experience in public schools. Offered by Graduate School of Education. May be repeated within the degree for a maximum 3 credits.

Recommended Prerequisite: Admission to the Elementary Education licensure program.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture**EDCI 553: *Science Methods for the Elementary Classroom*. 1-3 credits.**

Develops skills and abilities in science teaching methods, applications of technology, safety practices, and creation of integrated science curricula. Examines science teaching based on contemporary theory, practice, and standards. Notes: Requires field experience in public schools. Offered by Graduate School of Education. May be repeated within the degree for a maximum 3 credits.

Recommended Prerequisite: Admission to the Elementary Education licensure program.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 554: *Methods of Teaching Social Studies and Integrating Fine Arts in the Elementary Classroom.* 3 credits.

Focuses on the design and delivery of standards-based integrated curriculum centered on the social sciences. Includes integration of fine arts and examines the central role of the arts in learning. Notes: School-based field experience required. Offered by Graduate School of Education. May be repeated within the degree for a maximum 3 credits.

Recommended Prerequisite: Admission into Elementary Education graduate program; must be taken in programmatic sequence.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 555: *Literacy Teaching and Learning in Diverse Elementary Classrooms I.* 3 credits.

Provides research-based introduction to literacy teaching and learning for younger children. Emphasizes language development; reading and writing processes; emergent literacy; culture, families, and literacy; and literacy integration in the curriculum. Notes: School-based field experience required. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Elementary Education licensure program.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 556: *Literacy Teaching and Learning in Diverse Elementary Classrooms II.* 1-3 credits.

Provides research-based introduction to literacy teaching and learning for older children. Emphasizes literacy and language processes and development; connections among cultures, families, and literacy; and literacy integration in curriculum. Notes: School-based field experience required. Offered by Graduate School of Education. May be repeated within the degree for a maximum 3 credits.

Recommended Prerequisite: Admission to the Elementary Education Licensure program.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 557: *Integrating Technology in PreK-6.* 3 credits.

Studies the development and integration of technology in the elementary education curriculum including the use of technology to address the learning needs of diverse students. Notes: School-based field experience required. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Elementary Education licensure program.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 559: *Research and Assessment in Elementary Education.* 3 credits.

Provides teacher candidates an understanding of research paradigms utilizing systematic evidence to improve practice and further skills in assessment of learning outcomes. Emphasizes linking research and practice, making instructional decisions based on systematically collected data. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission into Elementary Education graduate program; capstone course for degree must be taken last in programmatic sequence.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 560: *Methods of Teaching in Foreign/World Languages.* 3 credits. Covers approaches, theories, and methods of teaching foreign and second languages, with practical application to classroom. Students demonstrate teaching strategies, develop lesson and unit-planning skills, and evaluate curricula and materials. Notes: Requires field experience in schools. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Corequisite: EDCI 516.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 567: *Teaching Social Studies in the Secondary School.* 3 credits. Provides teacher candidates an introduction to methods, frameworks, and practices of teaching social studies in secondary schools. Notes: Requires 15 hours of school-based field experience. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDUC 522. Concurrent enrollment is also permitted.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduation Deadline Extended, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 569: *Teaching English in the Secondary School.* 3 credits. Provides study of advanced methods, materials, content, and organization of English programs in secondary school. Notes: 15 hours school-based field experience required. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDUC 522. Concurrent enrollment is also permitted.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 570: *Teaching Young Adult Literacy in a Multicultural Setting.* 3 credits. Examines literary works written for and about young adults. Introduces critical issues surrounding teaching young adult literature in multiculturally diverse public schools and requires reading and reviewing young adult literature from several genres. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 572: *Teaching Mathematics in the Secondary School.* 3 credits. Emphasizes developing different styles of teaching. Notes: 15 hours school-based field experience required. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDUC 522. Concurrent enrollment is also permitted.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 573: *Teaching Science in the Secondary School.* 3 credits. Provides study of methods, materials, content, and organization of science programs. Emphasizes curriculum planning, current methodologies, safety, and trends in secondary schools. Notes: 15 hours school-based field experience required. Offered by Graduate School of Education. May not be repeated for credit.

Specialized Designation: Green Leaf Course

Recommended Prerequisite: EDUC 522. Concurrent enrollment is also permitted.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 597: *Special Topics in Education.* 1-6 credits. Provides advanced study on selected topic or emerging issue in American or international education. Notes: May be repeated for credit

with GSE permission. Offered by Graduate School of Education. May be repeated within the degree.

Recommended Prerequisite: Admission to program in GSE.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in ASTL-Alternative Education, ASTL-Early Childhood Educ, Gifted Child Education, ASTL - History, ASTL-Instructional Technology, ASTL - Literacy/Reading, ASTL - Mathematics, ASTL-NBPTS Preparation Core, ASTL - Science or Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

600 Level Courses

EDCI 600: *Workshop in Education.* 1-6 credits.

Offers full-time workshops and weekend seminars on selected topics in education and education tour seminars. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Seminar

EDCI 603: *Trends, Issues, and Research in Early Childhood Education.* 3 credits.

Examines trends, issues, research findings, and resulting program development. Offered by Graduate School of Education. May not be repeated for credit. Equivalent to EDUC 895.

Recommended Prerequisite: Admission to GSED.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in ASTL-Alternative Education, ASTL-Early Childhood Educ, Gifted Child Education, ASTL - History, ASTL-Instructional Technology, ASTL - Literacy/Reading, ASTL - Mathematics, ASTL-NBPTS Preparation Core, ASTL - Science or Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 613: *Curriculum and Assessment in Early Childhood Education I.* 3 credits.

First of two-course sequence addressing current thinking about curriculum and assessment in programs for preschool through third grade. Gives overview of effective ways to plan and implement integrated curriculum; special focus on content, subject matter. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in ASTL-Alternative Education, ASTL-Early Childhood Educ, Gifted Child Education, ASTL - History, ASTL-Instructional Technology, ASTL - Literacy/Reading, ASTL - Mathematics, ASTL-NBPTS Preparation Core, ASTL - Science, Adv Stud T/ L or Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 617: *Using Digital and Popular-Culture Media with Grades 4-12.* 3 credits.

Exposes students to recent knowledge on how middle and high school teachers can use digital media and popular culture texts to engage students in subject area learning or literacy development. Focus is on grades 4-12. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to a GSE licensure, Master's, or doctoral program and at least one year of PK-12 teaching experience, completion of EDCI 569, EDCI 567, EDCI 572, EDCI 573, or EDCI 544, or permission of instructor.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 621: *Introduction to Gifted and Talented Learners.* 3 credits.

Examines nature and needs of gifted and talented learners. Participants become knowledgeable about characteristics of gifted and talented students, and examine role of culture in manifestation of gifts and talents as well as gifted behaviors in special populations. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in ASTL-Alternative Education, ASTL-Early Childhood Educ, Gifted Child Education, ASTL - History, ASTL-Instructional Technology, ASTL - Literacy/Reading, ASTL -

Mathematics, ASTL-NBPTS Preparation Core, ASTL - Science, Adv Stud T/ L or Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 622: *Curriculum Differentiation for Diverse Learners*. 3 credits. Develops personal and professional rationale for differentiating instruction in mixed-ability classrooms, as well as skills and knowledge of strategies to utilize pre-assessment data and plan for and implement differentiated instruction. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in ASTL-Alternative Education, ASTL-Early Childhood Educ, Gifted Child Education, ASTL - History, ASTL-Instructional Technology, ASTL - Literacy/Reading, ASTL - Mathematics, ASTL-NBPTS Preparation Core, ASTL - Science or Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 623: *Models and Strategies for Teaching Gifted Learners*. 3 credits. Provides framework to examine and apply curriculum models and instructional strategies advocated for use with gifted students according to national and state standards that reflect best practices in gifted education. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 624: *Assessment, Identification, and Evaluation of Gifted Learners*. 3 credits.

Examines broad understandings of intelligence and assessment. Provides techniques to identify gifted students. Develops specific understandings of assessment techniques and awareness of the influences of language, culture, ethnicity, gender, and exceptionalism on recognition and subsequent identification of giftedness. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in ASTL-Alternative Education, ASTL-Early Childhood Educ, Gifted Child Education, ASTL - History, ASTL-Instructional Technology, ASTL - Literacy/Reading, ASTL - Mathematics, ASTL-NBPTS Preparation Core, ASTL - Science or Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 625: *Contemporary Issues and Trends in Gifted Education*. 3 credits. Focuses on research, trends, issues, legislation, and litigation concerning gifted and talented children. Provides professionals in gifted education and related fields with knowledge and skills to serve as advocates for gifted-child education. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 621, 622, 623, and 624.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in ASTL-Alternative Education, ASTL-Early Childhood Educ, Gifted Child Education, ASTL - History, ASTL-Instructional Technology, ASTL - Literacy/Reading, ASTL - Mathematics, ASTL-NBPTS Preparation Core, ASTL - Science, Adv Stud T/ L or Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 626: *Action Research in Gifted Education*. 3 credits.

Opportunity to identify and investigate school-based problem and apply inquiry, writing, and research skills to relevant issue or concern in gifted education. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in ASTL-Alternative Education, ASTL-Early Childhood Educ, Gifted Child Education, ASTL - History, ASTL-Instructional Technology, ASTL - Literacy/Reading, ASTL - Mathematics, ASTL-NBPTS Preparation Core, ASTL - Science or Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 627: *Advanced Practicum in Gifted Education*. 3 credits. Intensive supervised clinical experiences for one semester in accredited elementary or secondary school. Students supervised in setting that includes scheduled observations and seminar experiences. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 621, 622, 623, and 624.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in ASTL-Alternative Education, ASTL-Early Childhood Educ, Gifted Child Education, ASTL - History, ASTL-Instructional Technology, ASTL - Literacy/Reading, ASTL - Mathematics, ASTL-NBPTS Preparation Core, ASTL - Science, Adv Stud T/ L or Curriculum and Instruction.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Internship

EDCI 644: *Mathematics Learning and Assessment (K-8)*. 3 credits. Introduces students to learning theories and associated assessment practices specific to mathematics education. Intended for mathematics specialists and teachers interested in problems of learning and assessment across K-8 settings in mathematics education. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the MEd in Education Leadership, Mathematics Education Leadership concentration

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in Curriculum and Instruction or Education Leadership.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Research

EDCI 645: *Curriculum Development in Mathematics Education*. 3 credits. Analysis, design, and evaluation of school mathematics curricula. Notes: Yearlong seminar for master's-level students in mathematics education leadership cohort program. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Mathematics Education Leadership Masters Degree Program or permission of the instructor.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in Curriculum and Instruction or Education Leadership.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 646: *Mathematics Education Leadership for School Change*. 1-3 credits.

Surveys current literature and large-scale studies in mathematics education. Engages students in research, study, and discussion of factors that affect teaching and learning of mathematics in school settings. Notes: Yearlong seminar for master's-level students in mathematics education leadership cohort program. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Mathematics Education Leadership Masters Degree Program or permission of the instructor.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 663: *Research in Science Teaching*. 3 credits.

Investigates the research and methodology involved in teaching and learning biological, chemical, physical, and earth sciences from K-12. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Course in teaching science in elementary or secondary school, or permission of instructor.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to students with a major in ASTL-Alternative Education, ASTL-Early Childhood Educ, Gifted Child Education, ASTL - History, ASTL-Instructional Technology, ASTL - Literacy/Reading, ASTL - Mathematics, ASTL-NBPTS Preparation Core, ASTL - Science, Curriculum and Instruction or Education Leadership.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 666: *Research in Mathematics Teaching*. 3 credits.

Explores curricula, current issues, and research literature in elementary school mathematics. Emphasizes development of different styles of teaching. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Research

EDCI 667: *Advanced Methods of Teaching Social Sciences in the Secondary School.* 3 credits.

Emphasizes interdisciplinary curriculum and instruction, implementing national state standards, authentic assessment, and adaptations for diverse populations. Notes: School-based field experience required. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 567 and EDUC 522.

Recommended Corequisite: EDRD 619.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 669: *Advanced Methods of Teaching English in the Secondary School.* 3 credits.

Continuation course in methods (See EDCI 569). Guides students in working effectively with national and local standards for teaching secondary English. School-based field experience required. Offered by Graduate School of Education. May not be repeated for credit. Equivalent to EDCI 479.

Recommended Prerequisite: EDCI 569 and EDUC 522.

Recommended Corequisite: EDRD 619.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 670: *Advanced Methods in Science Teaching.* 3 credits.

Application of major principles of education and psychology for the improvements of science teaching in secondary schools. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 671: *Innovations in Science Teaching.* 3 credits.

Focuses on the development and selection of teaching materials that reflect concepts of technology innovation with an emphasis on middle and secondary school science. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 672: *Advanced Methods of Teaching Mathematics in the Secondary School.* 3 credits.

Focuses on learning processes for mathematics. Introduces national and state standards regarding content and methodologies for teaching mathematics. Examines instructional methods and materials in relation to secondary mathematical content, curriculum, and assessment. School-based field experience required. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 572, EDUC 522.

Recommended Corequisite: EDRD 619.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 673: *Advanced Methods of Teaching Science in the Secondary School.* 3 credits.

Provides advanced study of teaching and curriculum development based on research and current issues. Emphasizes integrating science and technology, and adapting instruction to the needs of diverse learners. School-based field experience required. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 573 and EDUC 522.

Recommended Corequisite: EDRD 619.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 684: *Advanced Methods of Teaching Foreign/Second Languages in PK-12 Schools.* 3 credits.

Blends theoretical knowledge and practical application. Provides advanced study of second language pedagogy and teaching trends. Topics include multiple learning styles, alternative forms and assessment, and teaching diverse populations. Notes: Requires school-based field experience. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 560 or permission of instructor.

Registration Restrictions:

Enrollment limited to students with a class of Advanced to Candidacy, Graduate, Non Degree or Senior Plus.

Enrollment is limited to Graduate, Non-Degree or Undergraduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

700 Level Courses

EDCI 702: *Internship in Mathematics Education.* 3 credits.

Offers practical experiences and professional challenges for mathematics leaders in authentic educational settings. Activities emphasize school-based and classroom based research and leadership. Develops the skills and abilities of the mathematics leaders to analyze classroom practice, investigate teaching and disseminate information about mathematics education in professional development settings for teachers. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment is limited to students with a major in Curriculum and Instruction or Education Leadership.

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Internship

EDCI 725: *National and International Leadership Issues in Mathematics Education.* 3 credits.

Students study research on mathematics teaching and learning, including current issues and trends in mathematics education leadership at national and international levels. Notes: Yearlong seminar for PhD students in the mathematics education leadership cohort program. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Mathematics Education Leadership PhD program.

Registration Restrictions:

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 726: *State and Local Leadership Issues in Mathematics Education.* 3 credits.

Students study issues and policies that affect mathematics teaching and learning, including current trends in mathematics school reform at state, district, and individual school levels. Notes: Yearlong seminar for

PhD students in the mathematics education leadership cohort program. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Mathematics Education Leadership PhD program.

Registration Restrictions:

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 776: *Consultation & Collaboration in Diverse K-12 Settings.* 3 credits. Focuses on ways in which practicing education professionals collaborate in serving diverse learners and their families. Explores methods for co-planning and co-teaching in the general education classroom and their families. Explores methods for co-planning and co-teaching in the general education classroom and ways for sharing responsibilities for instruction and assessment. Includes ways for dealing with difficult interactions are part of understanding how to implement collaborative and inclusive models of education for diverse learners. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Completion of 12 credits in concentration.

Registration Restrictions:

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Seminar

EDCI 777: *Research to Practice.* 3 credits.

Provides culminating experience that synthesizes and applies essential elements of teaching culturally & linguistically diverse and exceptional learners in international contexts. Emphasizes teacher as change agent through critical inquiry into practice. Promotes collaboration among teachers and school professionals to advance achievement of diverse learners. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Completion of all other program requirements.

Registration Restrictions:

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 784: *Capstone Seminar in Early Childhood Education.* 3 credits. Culminating seminar devoted to analyzing and synthesizing knowledge and skills gained through graduate course work as it applies to early childhood education. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment is limited to students with a major in ASTL-Alternative Education, ASTL-Early Childhood Educ, Gifted Child Education, ASTL - History, ASTL-Instructional Technology, ASTL - Literacy/Reading, ASTL - Mathematics, ASTL-NBPTS Preparation Core, ASTL - Science or Curriculum and Instruction.

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

EDCI 790: *Internship in Education*. 1-6 credits.

Intensive, supervised clinical experience for full semester in accredited school. Students must register for appropriate section. Offered by Graduate School of Education. May be repeated within the term for a maximum 6 credits.

Recommended Prerequisite: EDUC 522, EDUC 672, two methods classes in content area; passing Praxis II and VCLA, completing all endorsements.

Recommended Corequisite: EDCI 791.

Registration Restrictions:

Enrollment is limited to Graduate level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Internship

EDCI 791: *Internship Seminar in Secondary Teaching*. 2 credits.

Focuses on critical reflection regarding effects of teacher actions on others; develops skills as a reflective practitioner; presents research-based rationales for instructional decision-making. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the professional semester.

Recommended Corequisite: EDCI 790.

Registration Restrictions:

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Seminar

EDCI 797: *Advanced Topics in Education*. 1-6 credits.

Advanced study of selected topics in education for students preparing for doctoral studies or who have been admitted to the PhD program in education. Notes: May be repeated for credit with CEHD approval. Offered by Graduate School of Education. May not be repeated for credit.

Registration Restrictions:

Enrollment is limited to Graduate or Non-Degree level students.

Students in a Non-Degree Undergraduate degree may **not** enroll.

Schedule Type: Lecture

800 Level Courses

EDCI 810: *Foundations of Science Education Research*. 3 credits.

Explores and analyzes the range of research designs currently utilized by science education researchers. Develops an understanding of the assumptions and frameworks of different types of science education inquiry through an examination of ways of knowing. Examines historical trends that have taken place in science education. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Permission of instructor.

Recommended Corequisite: EDUC 800.

Registration Restrictions:

Enrollment is limited to students with a concentration in Science Education Research.

Enrollment limited to students in the PHD Education program.

Enrollment is limited to Graduate level students.

Schedule Type: Lecture

EDCI 811: *Current Trends in Science Education Research*. 3 credits.

Provides an in-depth examination and analysis of literature and research in science education. Examines theoretical foundations of research studies in science education, discusses methodologies of research, critique research, and examines trends in emerging science education research. Includes presentations by science education researchers as well as opportunities for graduate students to explore research ideas with colleagues within the class. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDCI 810.

Registration Restrictions:

Enrollment is limited to students with a concentration in Science Education Research.

Enrollment limited to students in the PHD Education program.

Enrollment is limited to Graduate level students.

Schedule Type: Lecture

EDCI 813: *Focused Science Education Research*. 3 credits.

Provides an opportunity for students to gain hands-on experience designing and conducting a research study in science education that leads to publication and/or conference presentations. The scholarship embodied in student development to this point in the doctoral program will lead students to work with a science education faculty member of their choice to development and seek to answer a research question of interest. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: EDRS 810, EDRS 811, EDRS 827.

Registration Restrictions:

Students cannot enroll who have a concentration in Science Education Research.

Enrollment limited to students in the PHD Education program.

Enrollment is limited to Graduate level students.

Schedule Type: Internship

EDCI 855: *Mathematics Education Research on Teaching and Learning*. 3 credits.

Students survey most current research literature in mathematics education and engage in research, study, and discussion of mathematics education research on teaching and learning in school settings. Notes: Yearlong seminar for PhD students in the mathematics education leadership cohort program. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Mathematics Education Leadership Ph.D. program.

Registration Restrictions:

Enrollment is limited to students with a major in Education.

Enrollment is limited to Graduate level students.

Schedule Type: Research

EDCI 856: *Mathematics Education Curriculum Design and Evaluation*. 3 credits.

Students engage in research, analysis, design, and evaluate school mathematics curricula. Notes: Yearlong seminar for PhD students in the mathematics education leadership cohort program. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Mathematics Education Leadership PhD program.

Registration Restrictions:

Enrollment is limited to Graduate level students.

Schedule Type: Research

EDCI 857: *Preparation and Professional Development of Mathematics Teachers*. 3 credits.

Students study attributes of effective professional development in mathematics education, develop expertise in designing and teaching mathematics methods courses, and learn to create and teach professional development experiences for practicing teachers. Notes: Yearlong seminar for PhD students in the mathematics education leadership cohort program. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Mathematics Education Leadership PhD program.

Registration Restrictions:

Enrollment is limited to Graduate level students.

Schedule Type: Research

EDCI 858: *Mathematics Education Research Design and Evaluation*. 3 credits.

Students review methods of research appropriate for mathematics education settings and develop theoretical framework and action plan for conducting research project. Notes: Yearlong seminar for PhD students in the mathematics education leadership cohort program. Offered by Graduate School of Education. May not be repeated for credit.

Recommended Prerequisite: Admission to the Mathematics Education Leadership PhD program.

Registration Restrictions:

Enrollment is limited to Graduate level students.

Schedule Type: Research